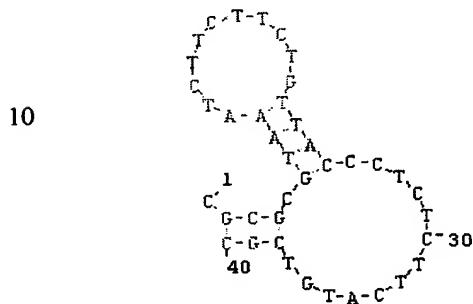


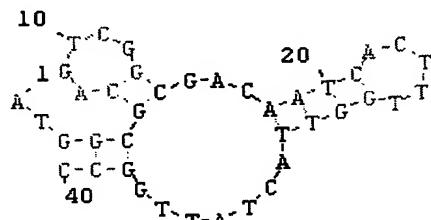
## CLAIMS

1. A group of oligonucleotides specifically bind to human tumor necrosis factor  $\alpha$  (TNF- $\alpha$ ) selected from sequences showed in SEQ Nos. 1-28.

5 2. The oligonucleotide sequences as recited in Claim 1 including DNA sequences and RNA sequences, wherein the DNA SEQ No. 1-18 has one of the secondary structures as following:

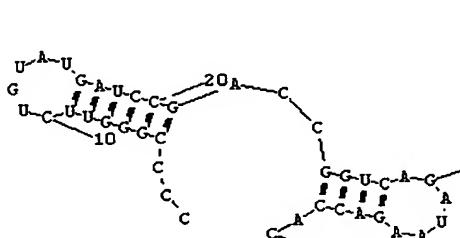


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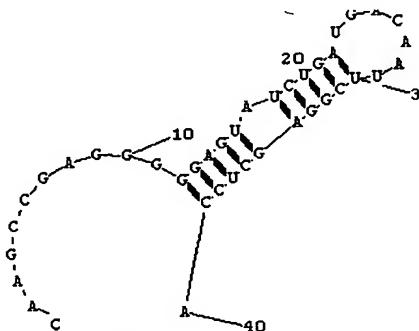


II

15 3. The oligonucleotide sequences as recited in Claim 1, wherein the RNA SEQ No. 19-28 sequence has one of the secondary structures as following:



III



IV

25 4. The oligonucleotide sequences as recited in Claim 1 including a homologue of the oligonucleotide sequence that has 70% homologue with and functions identical to the oligonucleotide sequence.

5. The oligonucleotides sequence as recited in Claim 1 including a truncated oligonucleotide sequence that functions identical to the oligonucleotide sequence.

6. The oligonucleotides sequences as recited in Claim 1 including a modified oligonucleotides sequence that functions identical to the oligonucleotides sequence.
7. A hybridizing oligonucleotides sequence which hybridize with the oligonucleotides sequence as recited in Claim 1 under strict condition.
- 5       8. A derivated oligonucleotide sequence from the oligonucleotides sequence as recited in Claim 1.
9. The application of the oligonucleotides sequence as recited in any one of Claims 1, 5, 6, and 7 for manufacture for therapy and diagnosis of TNF- $\alpha$  related diseases.

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